Recovery Kernel

[illegible]: GHB / GBL / 1,4-BD

[illegible], [illegible] - [illegible]

[illegible] '[illegible]' [illegible]. [illegible]. GHB [illegible], [illegible], [illegible], [illegible]. [illegible] - [illegible], [illegible], [illegible]. [illegible].

[illegible] 0 — [illegible]: [illegible]

[illegible]

[illegible] GHB, GBL, [illegible] 1,4-BD [illegible], [illegible]. [illegible] 2-6[illegible] [illegible], [illegible] 12-72 [illegible]/ [illegible]. [illegible], [illegible].

[illegible] - [illegible]:

- [illegible], [illegible]
- , [illegible] - [illegible].
- [illegible], [illegible] ([illegible])
- [illegible], [illegible]

⚠ [illegible]

GHB [illegible] overdose [illegible], [illegible] (naloxone) [illegible] (benzodiazepines) [illegible], [illegible] GHB [illegible] FDA [illegible]. [illegible] GHB [illegible]. [illegible] 8 [illegible], [illegible].

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			[illegible].
[illegible] 3-7	[illegible]; GABA-B [illegible]	[illegible], [illegible], [illegible]; [illegible].	[illegible] ([illegible]) [illegible] - [illegible], [illegible] 8 [illegible].
[illegible] 1-4	GABA-B [illegible]; [illegible] ([illegible]) [illegible]	[illegible]; [illegible]; [illegible]	[illegible] ([illegible] 9). [illegible], [illegible] ([illegible] 5).
[illegible] 1-3	GABA-B [illegible]-[illegible] - [illegible] GABA-A [illegible].	[illegible] (GHB [illegible] PAWS [illegible]), [illegible].	[illegible], [illegible] 9 [illegible] PAWS [illegible].
[illegible] 3-12	GABA [illegible] - [illegible] 3-6[illegible], [illegible].	, [illegible]; PAWS [illegible]	[illegible].
[illegible] 12-18+	[illegible] GABA-B [illegible]	[illegible] — [illegible], [illegible]-[illegible].	[illegible]. [illegible], [illegible].

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[illegible], [illegible]. GHB [illegible]: ' [illegible] 4-8 [illegible], GHB [illegible] GABA-B [illegible]. GABA [illegible] 3-6 [illegible].' [illegible]zo-[illegible] meth-[illegible], [illegible].

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GABRA2	GABA-A □□□□□-2 □□ □□□□ — □□□□□ □□□□□□ □□□□□	GHB □□□□□□ □□□□ □□□□□□□ □□□□. □□□ □□□□□□□ □□□□□□□□□□ □□□ □□□□ □□□□ □□□□□□□□□□ □□□□□□□□□□ □□□ □□□, GHB □□□□□ □□□□□□□ □□□□□□ □□□□□□ □□□□. □□□ □□□□□□□□□ □□□□□ □□□□□□ GABA □□□□□□□□ □□□, □□□□□ □□□□□ PAWS □□ □□□□□ □□ □□□□□□ (not optional) □□□□□□□□□ GABA □□□□□□□□□ □□□□□□□□□ □□□□ — □□□□ 9 □□□□□.
GABBR1 / GABBR2	GABA-B □□□□□ □□ □□□ □□ - □□ □□□□□□ GHB □□□□□□ □□□ □□□□□□	GHB □ □□□□□□□□□□ □□□□□□ □□□□ □□ □□□□□□□ □□□□□, GABRA2 □□ □□□□□□/□□□□□□□ □□□ □□□ □□□□□□□□□□ □□□□□□□. □□□□ □□□□□□ □□□□□ GHB □□□□□□ □□□□□□ □□□□□□□□□ □□ □□□□□□□ □□□□□□ □□□ GABA-B □□□ □□□□□□ □□□□□□□ □□□□□□. □□□□□□□ □□□ □□□□□ □□□□ □□□□□, □□□□□□□□ □□□□□□ □□ □□□ □□□ □□□□□□□□□ □□□□□ □□□□□□.
COMT (Val158Met)	□□□□□□□□ □□ □□□□ □□□□□□□ □□□□ □□□□□	Met/Met ('Sage,' □□□□□□□□ □□□□ □□□) □□□□□□ □□□□ □□□□□ GHB □□□□□□□ □□□□ □□□ □□□□□□□ □□ — □□□ □□□□□ GABA-B □□□□□□□□□□ □□□ □□□□□□□□ □□ □□□□□□□□ □□□□ □□□□. Val/Val ('Warrior') □□□□□□□□□□/ □□□□□□ □□□□□□□ □□□□□□□ □□□□□ □□□□□ □□□, GHB □□□□□□□- □□□□□□□ □□□□□□□□□□□□□□□ □□□ □□□□. □□□ □□□ □□□□□□□□ □□□□□□□ □□□□□ □□□□ □□□□: Sage □ □□□□□□□ □□ □□□□□□ □□□□□□□; Warrior □ □□□□□□□□ □□□□□□ □□□□□□□.
MTHFR	□□□□□□□□ - □□□□□□□□□ □□□□□□□□□	GHB □□□□ □□□□□□ □□□□□□□□□ □□ □□□□□□ □□□□□□□ □□□□□□ □□□□□□□□ □□□□. 5-MTHF □□□□□□ □□□□□ □□□□ □□ □□□ □□□□ □□□ □□□□, □□□□□□□□□ □□□□□□□ □□□ □□□□. GHB □□□□□□□□□□□□ □□□□□ □□□□ B- □□□□□□□□ □□□□ □□□ □□□□□□, □□□□□□□□□□□□ □□□□□□□□□ □□ □□□ □□□□□□□□□ □□□□.
DRD2 / ANKK1 (Taq1A)	□□□□□□□ D2 — □□□□□ □□□□□□ □□□□ (Reward Deficiency Syndrome)	□□□□□□ □□□□□□□□□□□□ □□ □□□□□□ □□□□□ □□□□□□□□□□□□, □□□□□ GHB □□ □□□□□□□□□□□□ □□□□□ □□□□□□□□□ □□□□□□. □□□□ □□□□□ □□□□□□□ □□□ □□□□□□□ □□□□□□ □□□□□□□ □□□□□□□ □□□□□, □□□ □□□□□□ □□□ GHB (□□□□□□□□□□□□ □□□□□□□□□) □□□□ □□□□□ □□□ □□□ □□□□□□□□□□ □□□□□□□ □□□□□□□ □□□□.

[illegible]	[illegible]	GHB [illegible]
SLC6A4 (5-HTTLPR)	[illegible]	[illegible]/[illegible] [illegible], [illegible] GABAergic [illegible]. [illegible] GABA [illegible] — 5-HTP [illegible] 5-MTHF [illegible].
CYP2C19 / CYP3A4	GHB [illegible]	[illegible] 8 [illegible] - [illegible]; [illegible]-[illegible] [illegible]. [illegible].
ADH1B / ALDH2	[illegible] 1,4-BD [illegible]	[illegible] 1,4-BD [illegible] - ADH/ALDH [illegible] 1,4-BD [illegible] GHB [illegible]. ALDH2*2 [illegible] 1,4-BD [illegible]-[illegible]; [illegible].

[illegible] - [illegible]

[illegible]: [illegible], [illegible], [illegible].

	[illegible]	[illegible]
GHB [illegible]?	GABRA2 [illegible] + COMT Met/Met ('Sage')	[illegible] GABAergic [illegible] 'Hard Fail' [illegible]: [illegible] (GABRA2) [illegible], [illegible] (Met/Met). GHB [illegible], [illegible] — [illegible], [illegible] GHB [illegible], [illegible].

	[illegible]	[illegible]
[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]?	GABRA2 [illegible] + GABBR1/GABBR2 [illegible]	[illegible] [illegible] [illegible] [illegible], [illegible] [illegible]. GABRA2 [illegible] [illegible]; GABBR1/GABBR2 [illegible] GHB [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] PAWS [illegible] [illegible].

⚠ [illegible]

COMT/taper [illegible]: COMT [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] GABA [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]. COMT [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. GHB [illegible] [illegible] Met/Met ('Sage') , [illegible] GABRA2/GABBR [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (GHB [illegible] [illegible] [illegible] [illegible] [illegible]). Val/Val ('Warrior') , [illegible] [illegible] [illegible] [illegible]/[illegible]- [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible].

[illegible] 6 — [illegible] [illegible] [illegible]

[illegible]	[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] (GHB) [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], . [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] (modafinil, armodafinil, solriamfetol, pitolisant) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]- [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] GHB [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] GHB [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] GABAergic [illegible] [illegible] [illegible] [illegible]. GHB [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] GABAergic [illegible] [illegible] [illegible] [illegible].

[illegible]	[illegible]
[illegible] / [illegible]	GHB [illegible], [illegible] — [illegible], [illegible], [illegible]. [illegible] GHB [illegible], [illegible] — [illegible]: [illegible], [illegible], [illegible], [illegible]. [illegible] 1 [illegible] 4 [illegible] — [illegible], [illegible], [illegible]. [illegible] GABA [illegible], [illegible] — [illegible] GH [illegible] ([illegible], [illegible], HIIT [illegible]) [illegible]; [illegible] GH- [illegible] (ipamorelin [illegible]) [illegible]. [illegible]: [illegible]. [illegible]—[illegible].
[illegible]	[illegible] GHB [illegible] — [illegible], [illegible] MDMA, [illegible], [illegible]. [illegible] Section 1 [illegible] '[illegible]' [illegible]: [illegible] GHB [illegible], [illegible], [illegible]. [illegible] - [illegible], [illegible] GHB [illegible] overdose [illegible]. [illegible]; [illegible], [illegible]. [illegible] - [illegible] - 5 [illegible] 'Hard Fail' [illegible].
[illegible]	[illegible], [illegible] '[illegible]' [illegible]. [illegible], [illegible] — [illegible], [illegible]. [illegible]. [illegible]: [illegible]. [illegible], [illegible], [illegible]. [illegible]. [illegible],

[illegible]	[illegible] [illegible] [illegible]
	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] GHB [illegible] GBL [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible]	[illegible]/[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible]
[illegible] / [illegible]	[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] (GHB, [illegible] [illegible] [illegible]) [illegible], [illegible] [illegible] [illegible] [illegible]	[illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible]: [illegible] [illegible] [illegible]? [illegible] [illegible] [illegible] [illegible]? [illegible] [illegible] [illegible], [illegible] 2 [illegible] [illegible] [illegible] [illegible] 3 [illegible] [illegible] [illegible] [illegible] [illegible].
3 — [illegible] [illegible], [illegible] [illegible]	[illegible] [illegible] [illegible], [illegible] [illegible] [illegible], [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (GHB [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible])	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] GHB [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] '[illegible] [illegible] [illegible]' [illegible] '[illegible]' [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. 9 [illegible] [illegible] Tier 1 [illegible] Tier 3 ([illegible] [illegible] [illegible] GABA [illegible]) [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
4 — [illegible] [illegible] / [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] (GHB, [illegible], [illegible], [illegible] [illegible]) [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible], GABA-B [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] 5 [illegible] [illegible] [illegible] [illegible].
5 — [illegible] ([illegible] [illegible])	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]	[illegible]	[illegible]/[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible]
		[illegible] [illegible].	

[illegible] [illegible]

[illegible] [illegible] 2 [illegible] 3 [illegible] [illegible] [illegible] [illegible]

[illegible]		[illegible]
[illegible] ([illegible])	GABA-B [illegible] - [illegible] GHB [illegible]; [illegible], [illegible].	[illegible]. [illegible] — [illegible] 200-300 — [illegible]. [illegible]; [illegible], [illegible] (Addolorato et al. 2009; Bell et al. 2011) [illegible].
[illegible] ([illegible])	GABA-A [illegible] - GABA [illegible], GHB [illegible].	[illegible]. [illegible], [illegible], GHB [illegible] pin [illegible]. [illegible].
[illegible]	[illegible], [illegible].	[illegible] - [illegible], [illegible], [illegible]. [illegible]; [illegible] dışında [illegible].
Phenobarbital	GABA-A [illegible]; [illegible] ([illegible] 53-118) [illegible], [illegible]	[illegible] GABAergic [illegible]-[illegible] [illegible]. [illegible]. [illegible].
[illegible] ([illegible])	[illegible]; [illegible]/ [illegible]-[illegible] (haloperidol, quetiapine); [illegible]-; IV [illegible]	GHB [illegible] - [illegible] 1 [illegible] 2 [illegible].

⚠ [illegible]

[illegible]: [illegible] (MCTs) [illegible], [illegible]. [illegible] GHB [illegible]. [illegible], [illegible] ([illegible] pH [illegible]) [illegible] GHB [illegible]. [illegible]. GABA-B (SCH-50911) [illegible], [illegible]. [illegible] (proof-of-concept) [illegible]—[illegible]

[illegible]—[illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible]-[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] 30 [illegible]: [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

⚠ [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: GHB [illegible] [illegible] [illegible] [illegible] ([illegible] [illegible] [illegible] 5 [illegible] [illegible]) [illegible] [illegible] [illegible] [illegible] GABA-B [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]?	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]?
30 [illegible] [illegible] [illegible] [illegible] [illegible].	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] GHB [illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]: [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible]

- MTHFR-□□□□□□□ □□□□□□□ □□□□□□□□ □□□□□ SSRI □□□□□ □□□□□□□ □□□□ 5-MTHF □□□□□□□ □□□□□□ - □□□□ 4-8 □□□□□ □□□□□□□□□□ □□□□□□□□ □□□□□□; □□ lâm □□□□□□ □□□□ SSRI □□□□□□□ □□.
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[illegible], [illegible], [illegible] (... [illegible] 4).

[illegible] — [illegible]

[illegible] 1 [illegible]. GHB [illegible] — [illegible], [illegible] — [illegible], [illegible].

- [illegible] GABA [illegible], [illegible].
- [illegible] - [illegible].
- [illegible] 2 [illegible] 4 [illegible]/[illegible].
- GHB [illegible], [illegible] (P5P [illegible] 5-MTHF [illegible]) [illegible] — [illegible] Tier 1 [illegible] B-complex [illegible].

[illegible]: [illegible] GABA

[illegible]. [illegible] - [illegible], [illegible]. GHB [illegible]: [illegible], [illegible], [illegible]. [illegible], [illegible], [illegible] - [illegible] GHB [illegible].

[illegible]	GABA [illegible]	GHB [illegible]
[illegible] (4-7-8, [illegible], [illegible])	[illegible] - [illegible]/[illegible]/ GABAergic	[illegible] GABA [illegible]. [illegible] - [illegible] GABA [illegible]. [illegible].
[illegible]	[illegible] - [illegible].	[illegible], [illegible] 30-90, [illegible]. GHB [illegible] '[illegible]' [illegible], [illegible].
[illegible]	-[illegible], [illegible]	[illegible] - [illegible] kardiovascular [illegible] GABA/endorphin [illegible]

[illegible]	GABA [illegible] [illegible]	GHB [illegible] [illegible] [illegible] [illegible] [illegible]
		[illegible] [illegible].
BPM 60-70 [illegible] [illegible]	- [illegible] [illegible] [illegible]ympathetic [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] -[illegible] [illegible] [illegible]	[illegible] [illegible] [illegible] [illegible] GABA [illegible] - [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible].

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[illegible]		[illegible] [illegible] [illegible]
		[illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] PAWS [illegible] [illegible] [illegible] [illegible] [illegible].
GABA (Day 1-12, [illegible])	[illegible] 04, 01 [illegible] [illegible]	[illegible] [illegible], [illegible] [illegible] [illegible], [illegible], [illegible] [illegible], [illegible] [illegible] [illegible], [illegible] — [illegible] [illegible] 3-6 [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] 4-8 [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 02, 05, 08, 13 (Day 2-12)	[illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] — [illegible] [illegible] [illegible] [illegible] [illegible] (Day, [illegible], [illegible] [illegible]) [illegible] [illegible] [illegible]-[illegible] [illegible] [illegible] [illegible]; [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible] 35S , [illegible]	HIV/STI [illegible] [illegible], [illegible] [illegible], [illegible] [illegible] LGBTQ+ [illegible] - [illegible] 6 [illegible] [illegible] [illegible].
[illegible] [illegible] [illegible] [illegible] (Day 2-12)	[illegible] 20, 21, 23, C-28	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] - [illegible] 4 [illegible] [illegible] [illegible]/[illegible] [illegible] [illegible] [illegible] [illegible].
[illegible] (Day 6-18+)	[illegible] 24, 25, C-28, C-31	[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] GABA [illegible] — [illegible] 3 [illegible], [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible].

[illegible] 12 — [illegible] [illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] — [illegible] [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible] [illegible], [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]